University of Science and Technology of Southern Philippines

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GrocerList - Black Box Testing

CS317 - Software Engineering

Testing Phase Example Format

28/12/2024

Software Engineering Lab 6

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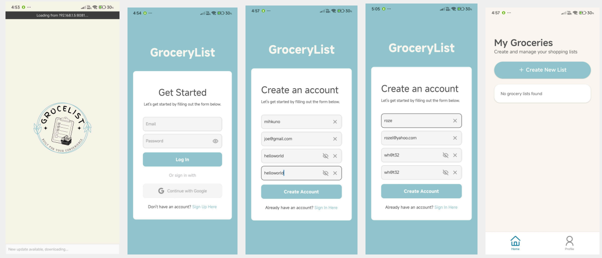
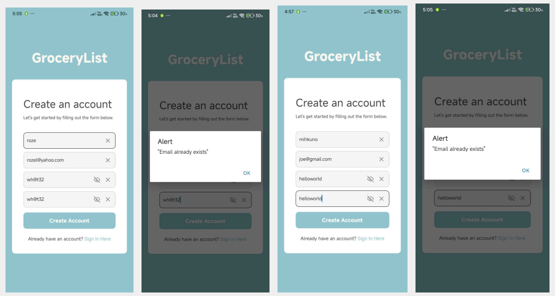
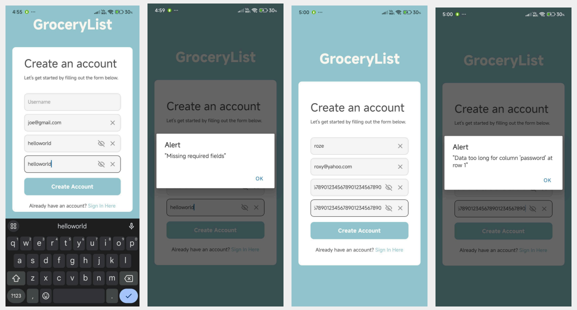
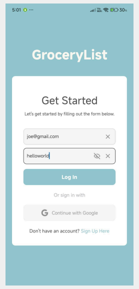
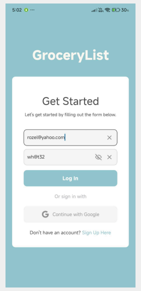
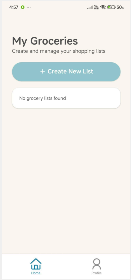
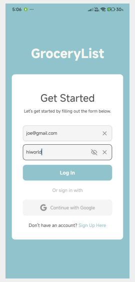
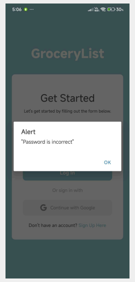
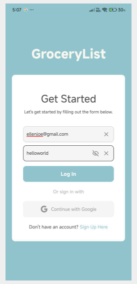
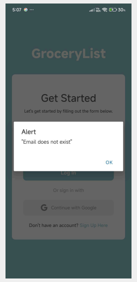
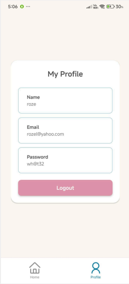
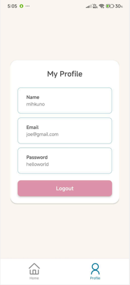
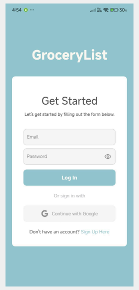
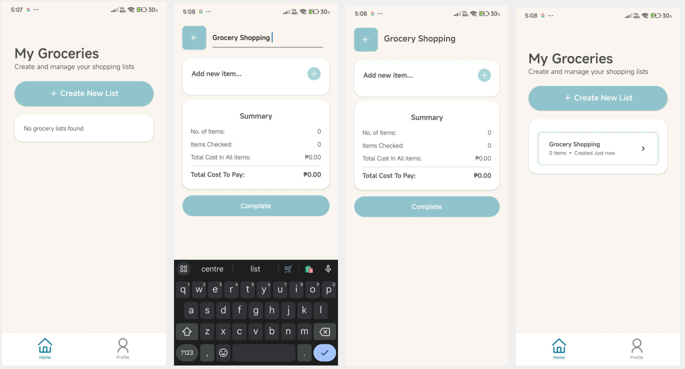
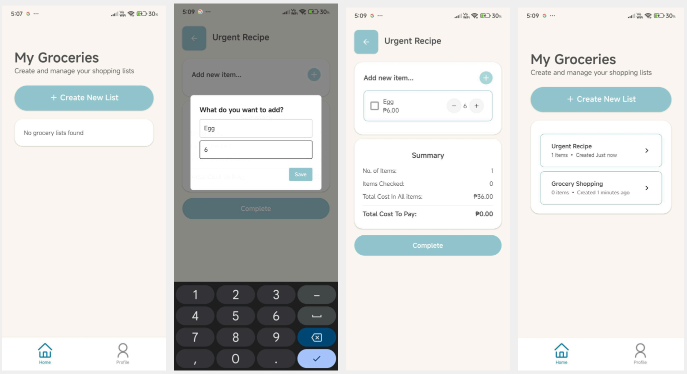
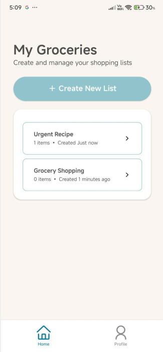
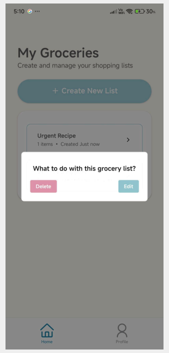
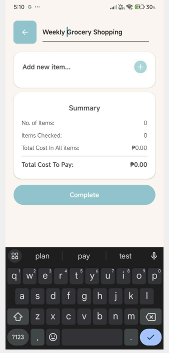
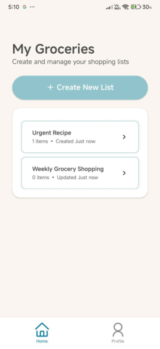
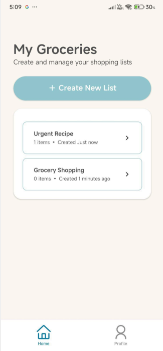
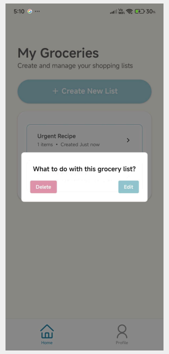
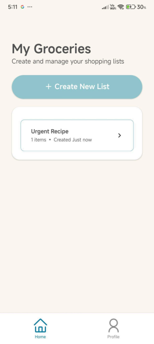
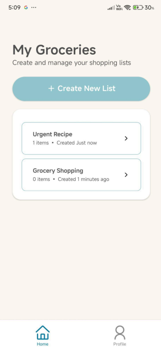
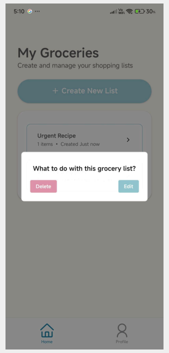
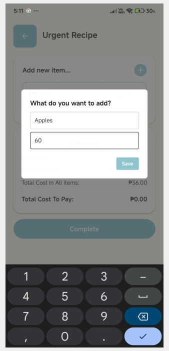
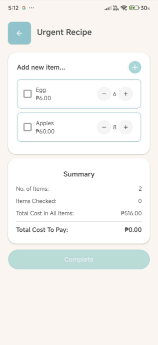
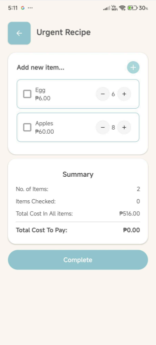
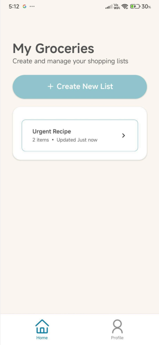
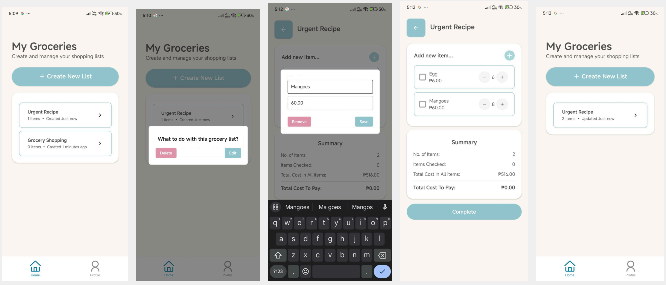
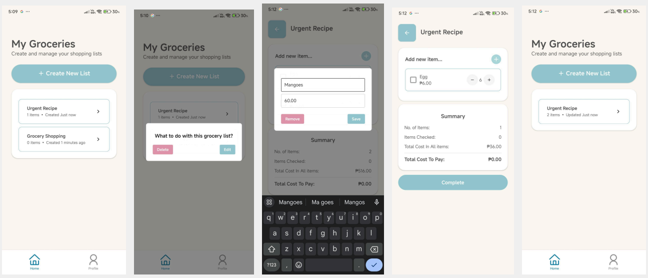
Test Case Name	Test Case ID	Description	Preconditions	Execution Steps	Test Data	Expected Results	Actual Results	Status	Documentation
Sign Up Accept	TC-SIGNUP-01	Verify if the application creates the users in the database.	1. Database and Express Server must be live 2. Mobile is connected to the server address. 3. User must not be logged in 4. Credentials do not exist and are valid inputs (min 32 chars).	1. Click sign up button 2. Input Credentials 3. Click Sign Up button	☑ Name: mihkuno Email: joe@gmail.com Pass: helloworld ☑ Name: roze Email: rozel@yahoo.com Pass: wh@t32	User is redirected to home screen	User is redirected to home screen	PASS	 Loading from 192.168.1.5:8081... New update available, downloading... Get Started Let's get started by filling out the form below. Email Password Create an account Let's get started by filling out the form below. mihkuno joe@gmail.com helloworld helloworld roze rozel@yahoo.com wh@t32 wh@t32 My Groceries Create and manage your shopping lists No grocery lists found GROCELIST BUILT FOR YOUR CONVENIENCE GroceryList Log In Or sign in with Continue with Google Don't have an account? Sign Up Here Create Account Already have an account? Sign In Here + Create New List Home Profile
Sign Up Exist	TC-SIGNUP-02	Verify if the application rejects existing user registration.			☑ Name: mihkuno Email: joe@gmail.com Pass: helloworld ☑ Name: roze Email: rozel@yahoo.com Pass: wh@t32	User gets error popup that user already exists	User gets error popup that user already exists	PASS	 Create an account Let's get started by filling out the form below. roze rozel@yahoo.com wh@t32 wh@t32 Alert "Email already exists" mihkuno joe@gmail.com helloworld helloworld Alert "Email already exists" GroceryList OK Create Account Already have an account? Sign In Here
Sign Up Email Invalid	TC-SIGNUP-03	Verify if the application rejects invalid inputs user registration.			☑ Name: Email: joey@gmail.com Pass: helloworld ☑ Name: roze Email: roxy@yahoo.com Pass: 1234567890 1234567890 1234567890 1234567890	User gets a rejected popup.		PASS PASS	 Create an account Let's get started by filling out the form below. Username joe@gmail.com helloworld helloworld Alert "Missing required fields" roze roxy@yahoo.com ;7890123456789012345678 90 ;7890123456789012345678 90 Alert "Data too long for column 'password' at row 1" GroceryList OK Create Account Already have an account? Sign In Here

Sign In Accept	TC-SIGNIN-01	Verify if account login authentication redirection works.	1. Database and Express Server must be live 2. Mobile is connected to the server address. 3. Must already registered	1. Input credentials 2. Click Sign In button	☑ Email: joe@gmail.com Pass: helloworld ☑ Email: rozel@yahoo.com Pass: wh@t32	User gets redirected to the home screen	User gets redirected to the home screen	PASS	 GroceryList Get Started Let's get started by filling out the form below. joe@gmail.com helloworld Log In Or sign in with Continue with Google Don't have an account? Sign Up Here  GroceryList Get Started Let's get started by filling out the form below. rozel@yahoo.com wh@t32 Log In Or sign in with Continue with Google Don't have an account? Sign Up Here  My Groceries Create and manage your shopping lists + Create New List No grocery lists found Home Profile
Sign In Reject	TC-SIGNIN-02	Verify if proper rejection if api throws an error.			☑ Email: joe@gmail.com Pass: hiworld ☑ Email: ellenjoe@gmail.com Pass: helloworld	User gets a rejected popup.	Password is incorrect Email does not exist	PASS	 GroceryList Get Started Let's get started by filling out the form below. joe@gmail.com hiworld Log In Or sign in with Continue with Google Don't have an account? Sign Up Here  Alert "Password is incorrect" OK  GroceryList Get Started Let's get started by filling out the form below. ellenjoe@gmail.com helloworld Log In Or sign in with Continue with Google Don't have an account? Sign Up Here  Alert "Email does not exist" OK
Sign Out	TC-SIGNIN-03	Check if the logout button is working.	1. Must be signed into any account	1. Click the profile tab 2. Click logout button		User is redirected to sign in screen	User is redirected to sign in screen	PASS	 My Profile Name roze Email rozel@yahoo.com Password wh@t32 Logout Home Profile  My Profile Name mihkuno Email joe@gmail.com Password helloworld Logout Home Profile  GroceryList Get Started Let's get started by filling out the form below. Email Password Log In Or sign in with Continue with Google Don't have an account? Sign Up Here

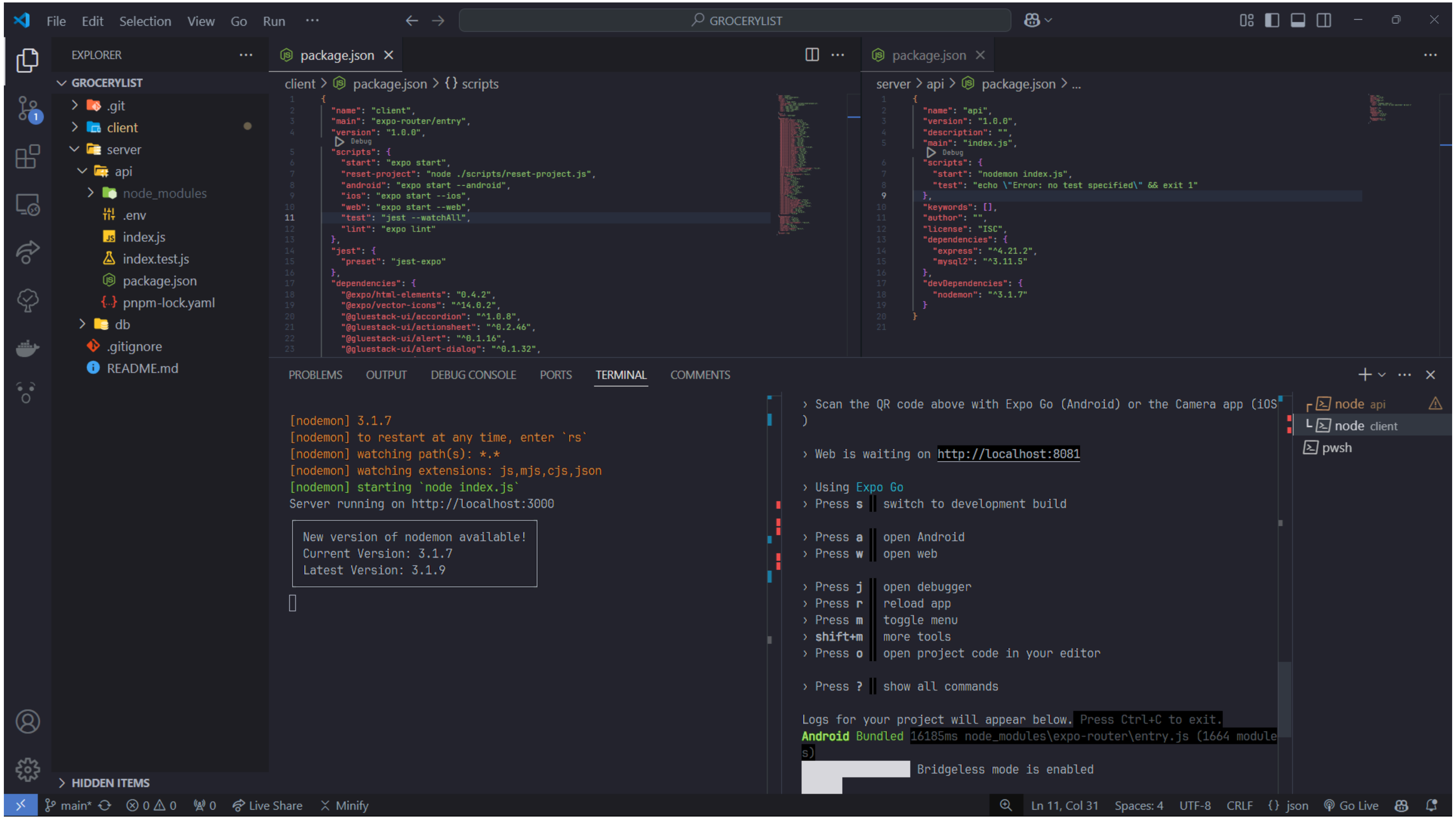
Create List W/O Item	TC-CREATE-01	Verify if the application allows users to create a new list successfully.	1. User must be logged into their account. 2. Database and server must be live.	1. Navigate to the "Home" tab. 2. Click the "Create List" button. 3. Input the list name. 4.Click "Save"	☑ Task Name: "Grocery Shopping"	A new task is created, and it appears in the list.	A new task is created, and it appears in the list.	PASS	 5:07 My Groceries Create and manage your shopping lists + Create New List No grocery lists found Home Profile 5:08 Grocery Shopping Add new item... Summary No. of Items: 0 Items Checked: 0 Total Cost In All items: ₱0.00 Total Cost To Pay: ₱0.00 Complete centre list 5:08 Grocery Shopping Add new item... Summary No. of Items: 0 Items Checked: 0 Total Cost In All items: ₱0.00 Total Cost To Pay: ₱0.00 Complete 5:08 My Groceries Create and manage your shopping lists + Create New List Grocery Shopping 0 items • Created Just now Home Profile
Create List W/ Item	TC-CREATE-02	Verify if the application allows users to create a new list with items successfully.		1. Navigate to the "Home" tab. 2. Click the "Create List" button. 3. Input the listname. 4. Click the "Add Item" button. 5. Input the item name, price and quantity. 6.Click "Save"	☑ Task Name: "Urgent Recipe" Item to Add: Egg Quantity: 2 Price: 6	A new task with items is created, and it appears in the list.	A new task with items is created, and it appears in the list.	PASS	 5:07 My Groceries Create and manage your shopping lists + Create New List No grocery lists found Home Profile 5:09 Urgent Recipe Add new item... What do you want to add? Egg 6 Save Complete 5:09 Urgent Recipe Add new item... Egg ₱6.00 6 Summary No. of Items: 1 Items Checked: 0 Total Cost In All items: ₱36.00 Total Cost To Pay: ₱0.00 Complete 5:09 My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now Grocery Shopping 0 items • Created 1 minutes ago Home Profile

Edit List	TC-EDIT-01	Verify if the application allows users to edit an existing task.	1. User must be logged into their account. 2. Database and server must be live. 3. At least one task exists in the list.	1. Navigate to the "Home" tab. 2. Hold press an existing task. 3. Click the "Edit Task" button. 4. Modify the task name or description. 5. Click "Save."	☐ From Task Name: "Grocery Shopping" To Task Name: "Weekly Grocery Shopping"	The selected task is updated with the new details.	The selected task is updated with the new details.	PASS	 My Groceries Create and manage your shopping lists Urgent Recipe 1 items • Created Just now Grocery Shopping 0 items • Created 1 minutes ago  What to do with this grocery list? 5:10 30% My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now Delete Edit Home Profile  Weekly Grocery Shopping Summary No. of Items: 0 Items Checked: 0 Total Cost In All items: ₱0.00 Total Cost To Pay: ₱0.00 5:10 30% Add new item... Complete plan pay test ?123  My Groceries Create and manage your shopping lists Urgent Recipe 1 items • Created Just now Weekly Grocery Shopping 0 items • Updated Just now
Delete List	TC-DELETE-01	Verify if the application allows users to delete an existing task.		1. Navigate to the "Home" tab. 2. Hold press an existing list. 3. Click the "Delete" button.	☐ Task Name: "Weekly Grocery Shopping"	The selected task is removed from the task list.	The selected task is removed from the task list.	PASS	 My Groceries Create and manage your shopping lists Urgent Recipe 1 items • Created Just now Grocery Shopping 0 items • Created 1 minutes ago  What to do with this grocery list? 5:10 30% My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now Delete Edit Home Profile  My Groceries Create and manage your shopping lists Urgent Recipe 1 items • Created Just now

Add Item to Existing List	TC-ADDITEM-01	Verify if the application allows users to add a new item to a task or list.	1. User must be logged into their account. 2. Database and server must be live. 3. At least one list exists.	1. Navigate to the "Home" tab. 2. Hold press "List". 3. Click the edit button 4. Click the "Add Item" button. 5. Input the item name, price and quantity. 6. Click "Save."	□ Task Name: "Urgent Recipe" Item to Add: Apples Quantity: 8 Price 60	The new item is added to the selected list.	The new item is added to the selected list.	PASS	 5:09 30% My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now Grocery Shopping 0 items • Created 1 minutes ago Home Profile  5:10 30% My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now What to do with this grocery list? Delete Edit Home Profile  5:11 30% Urgent Recipe Add new item... What do you want to add? Apples 60 Save Total Cost In All items: ₱36.00 Total Cost To Pay: ₱0.00 Complete 1 2 3 – 4 5 6 7 8 9 , 0 .  5:12 30% Urgent Recipe Add new item... □ Egg ₱6.00 – 6 + □ Apples ₱60.00 – 8 + Summary No. of Items: 2 Items Checked: 0 Total Cost In All items: ₱516.00 Total Cost To Pay: ₱0.00 Complete  5:11 30% Urgent Recipe Add new item... □ Egg ₱6.00 – 6 + □ Apples ₱60.00 – 8 + Summary No. of Items: 2 Items Checked: 0 Total Cost In All items: ₱516.00 Total Cost To Pay: ₱0.00 Complete  5:12 30% My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 2 items • Updated Just now Home Profile

Edit Item	TC-EDITITEM-01	Verify if the application allows users to edit an existing item in a list.	1. User must be logged into their account. 2. Database and server must be live. 3. At least one item exists in a list.	1. Navigate to the "Home" tab. 2. Hold press "List". 3. Click the edit button 4. Hold press an item 5. Input the item name, price and quantity. 6. Click "Save."	□ Task Name: "Urgent Recipe" From Item: Apples To Item: Mangoes	The selected item is updated with the new details.	The selected item is updated with the new details.	PASS	 My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now Grocery Shopping 0 items • Created 1 minutes ago Home Profile What to do with this grocery list? Delete Edit Urgent Recipe Add new item... Mangoes 60.00 Remove Save Summary No. of Items: 2 Items Checked: 0 Total Cost In All items: ₱516.00 Total Cost To Pay: ₱0.00 Egg ₱6.00 6 Mangoes ₱60.00 8 Complete Urgent Recipe 2 items • Updated Just now
Delete Item	TC-DELETEITEM-01	Verify if the application allows users to delete an existing item from a list.		1. Navigate to the "Home" tab. 2. Hold press "List". 3. Click the edit button 4. Hold press an item 5. Click the trash	□ Task Name: "Urgent Recipe" Item To Delete: Mangoes	The selected item is removed from the list.	The selected item is removed from the list.	PASS	 My Groceries Create and manage your shopping lists + Create New List Urgent Recipe 1 items • Created Just now Grocery Shopping 0 items • Created 1 minutes ago Home Profile What to do with this grocery list? Delete Edit Urgent Recipe Add new item... Mangoes 60.00 Remove Save Summary No. of Items: 2 Items Checked: 0 Total Cost In All items: ₱516.00 Total Cost To Pay: ₱0.00 Egg ₱6.00 6 No. of Items: 1 Total Cost In All items: ₱36.00 Complete Urgent Recipe 2 items • Updated Just now

Client and Server Setup



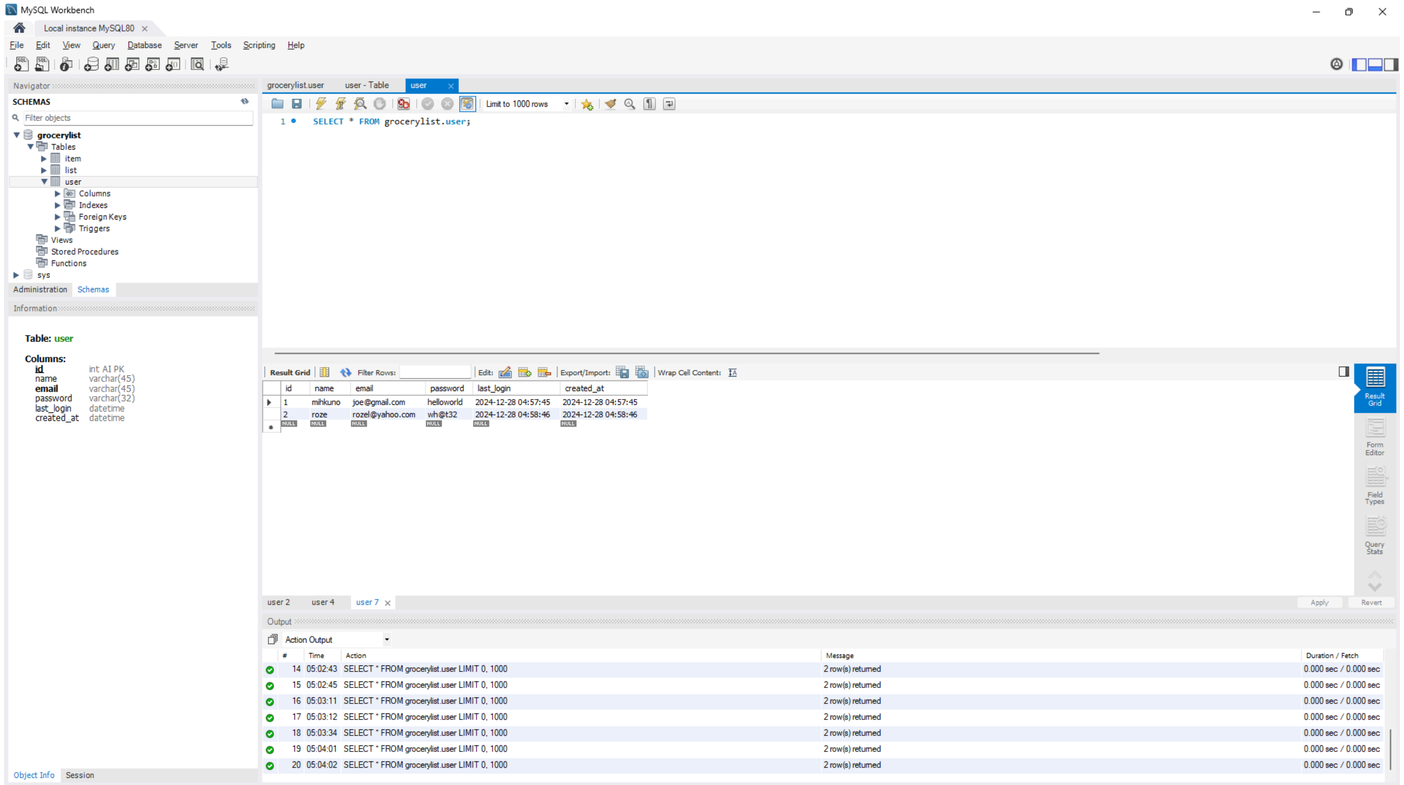
```json
{
  "name": "client",
  "main": "expo-router/entry",
  "version": "1.0.0",
  "scripts": {
    "start": "expo start",
    "reset-project": "node ./scripts/reset-project.js",
    "android": "expo start --android",
    "ios": "expo start --ios",
    "web": "expo start --web",
    "test": "jest --watchAll",
    "lint": "expo lint"
  },
  "jest": {
    "preset": "jest-expo"
  },
  "dependencies": {
    "@expo/html-elements": "0.4.2",
    "@expo/vector-icons": "^14.0.2",
    "@gluestack-ui/accordion": "^1.0.8",
    "@gluestack-ui/actionsheet": "^0.2.46",
    "@gluestack-ui/alert": "^0.1.16",
    "@gluestack-ui/alert-dialog": "^0.1.32",
```

```json
{
  "name": "api",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "start": "nodemon index.js",
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "express": "^4.21.2",
    "mysql2": "^3.11.5"
  },
  "devDependencies": {
    "nodemon": "^3.1.7"
  }
}
```

```
[nodemon] 3.1.7
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node index.js`
Server running on http://localhost:3000

 New version of nodemon available!
 Current Version: 3.1.7
 Latest Version: 3.1.9
```

```
› Scan the QR code above with Expo Go (Android) or the Camera app (iOS
)

› Web is waiting on http://localhost:8081

› Using Expo Go
› Press s │ switch to development build

› Press a │ open Android
› Press w │ open web

› Press j │ open debugger
› Press r │ reload app
› Press m │ toggle menu
› shift+m │ more tools
› Press o │ open project code in your editor

› Press ? │ show all commands

Logs for your project will appear below. Press Ctrl+C to exit.
Android Bundled 16185ms node_modules\expo-router\entry.js (1664 module
s)
          Bridgeless mode is enabled
```

Database Setup



```sql
SELECT * FROM grocerylist.user;
```

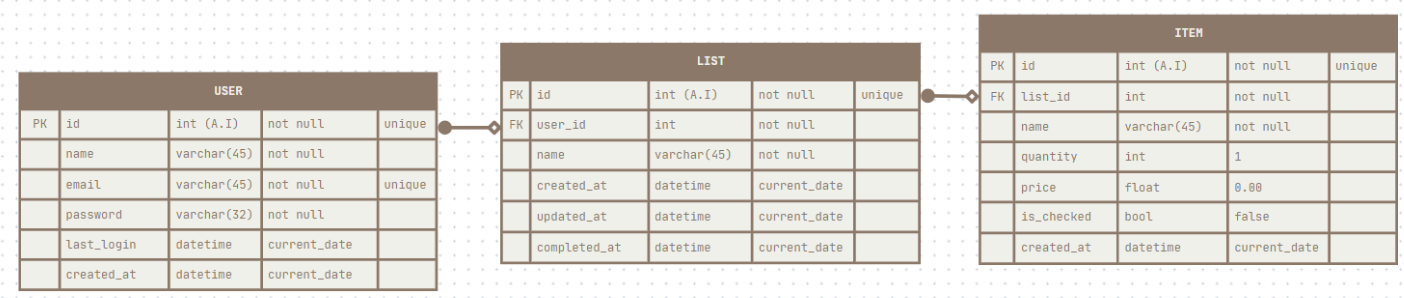
Table: user

Columns:

id	int AI PK
name	varchar(45)
email	varchar(45)
password	varchar(32)
last_login	datetime
created_at	datetime

id	name	email	password	last_login	created_at
1	mihkuno	joe@gmail.com	helloworld	2024-12-28 04:57:45	2024-12-28 04:57:45
2	roze	rozel@yahoo.com	wh@t32	2024-12-28 04:58:46	2024-12-28 04:58:46
NULL	NULL	NULL	NULL	NULL	NULL

```
#   Time      Action                                          Message            Duration / Fetch
14  05:02:43  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
15  05:02:45  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
16  05:03:11  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
17  05:03:12  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
18  05:03:34  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
19  05:04:01  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
20  05:04:02  SELECT * FROM grocerylist.user LIMIT 0, 1000    2 row(s) returned  0.000 sec / 0.000 sec
```



USER

PK	id	int (A.I)	not null	unique
	name	varchar(45)	not null	
	email	varchar(45)	not null	unique
	password	varchar(32)	not null	
	last_login	datetime	current_date	
	created_at	datetime	current_date	

LIST

PK	id	int (A.I)	not null	unique
FK	user_id	int	not null	
	name	varchar(45)	not null	
	created_at	datetime	current_date	
	updated_at	datetime	current_date	
	completed_at	datetime	current_date	

ITEM

PK	id	int (A.I)	not null	unique
FK	list_id	int	not null	
	name	varchar(45)	not null	
	quantity	int	1	
	price	float	0.00	
	is_checked	bool	false	
	created_at	datetime	current_date	

PS. We tested while developing so most of the black box test cases are instantly successful.. needs more sample inputs for rigorous tests